

CARBON FOOTPRINT REPORT

Since 2012 we've achieved a carbon reduction of 48% using the location-based calculation (UK average emission factors) and a reduction of 81% using the market-based calculation (taking into account our purchase of electricity from renewable sources). All figures are in tCO₂e¹.

TABLE 1 – LOCATION-BASED CARBON FOOTPRINT (tCO₂e)

YBS carbon emissions 2012-2019 (in tCO₂e) calculated using the location-based methodology as verified by Ricardo AEA Limited.

Scope 1	2012	2013	2014	2015	2016	2017	2018	2019
Natural gas and diesel consumption*	1,466	1,480	1,315	1,290	1,233	1,133	1,235	1,019
Delivery vehicles fuel consumption	- ²	-	-	-	-	-	-	9
Company and hire cars fuel consumption	196	223	344	441	523	444	403	262
Total scope 1	1,662	1,703	1,659	1,731	1,756	1,577	1,638	1,290
Scope 2	2012	2013	2014	2015	2016	2017	2018	2019
Electricity consumption	7,868	8,076	8,439	7,465	6,530	5,190	4,064	3,051
Company cars electricity consumption	-	-	-	-	-	-	-	0
Total scope 2	7,868	8,076	8,439	7,465	6,530	5,190	4,064	3,051
Scope 3	2012	2013	2014	2015	2016	2017	2018	2019
Transmission and distribution - Electricity consumption	622	691	738	616	591	485	347	259
Transmission and distribution - Electric cars	-	-	-	-	-	-	-	0
Business travel - Aviation (includes RF Factors)**	-	-	-	37	34	31	56	82
Business travel - Rail	-	-	-	104	106	91	78	80
Business travel - Cars	-	-	-	121	221	124	84	84
Business travel - Hotel	-	-	-	-	-	-	-	77
Water supply and treatment	28	39	39	42	33	34	42	33
Waste disposal - Recycling	-	-	-	-	-	-	-	6
Waste disposal - Recovery***	-	-	-	15	17	12	45	2
Waste disposal - Landfill	-	-	-	5	9	11	3	0
Well-to-tank - Natural gas and diesel	-	-	-	-	-	-	-	137
Well-to-tank - Electricity consumption	-	-	-	-	-	-	-	36
Well-to-tank - Delivery vehicles	-	-	-	-	-	-	-	2
Well-to-tank - Aviation (includes RF Factors)**	-	-	-	-	-	-	-	9
Well-to-tank - Rail	-	-	-	-	-	-	-	15
Well-to-tank - Cars	-	-	-	-	-	-	-	88
Total scope 3	650	730	777	940	1,011	788	655	912
Total carbon footprint	10,180	10,509	10,875	10,136	9,297	7,555	6,357	5,253

¹ Tonnes of carbon dioxide equivalent (tCO₂e) is a measure that allows the comparison of emissions from other greenhouse gases relative to one unit of CO₂. It is calculated by multiplying the greenhouse gas' emissions by its 100-year global warming potential.

² In TABLE 1 and 2 '-' denotes no data available, '0' represents 0 carbon footprint

TABLE 2 – MARKET-BASED CARBON FOOTPRINT (tCO₂e)

YBS carbon emissions 2012-2019 (in tCO₂e) calculated using the market-based methodology as verified by Ricardo AEA Limited. Market-based emissions were not calculated for 2012 - 2014, therefore the location-based methodology is used for those years.

Scope 1	2012	2013	2014	2015	2016	2017	2018	2019
Natural gas and diesel consumption*	1,466	1,480	1,315	1,290	1,233	1,133	1,235	1,019
Delivery vehicles fuel consumption	-	-	-	-	-	-	-	9
Company and hire cars fuel consumption	196	223	344	441	523	444	403	262
Total scope 1	1,662	1,703	1,659	1,731	1,756	1,577	1,638	1,290
Scope 2	2012	2013	2014	2015	2016	2017	2018	2019
Electricity consumption	7,868	8,076	8,439	0****	0****	0****	0****	0****
Company cars electricity consumption	-	-	-	-	-	-	-	0****
Total scope 2	7,868	8,076	8,439	0****	0****	0****	0****	0****
Scope 3	2012	2013	2014	2015	2016	2017	2018	2019
Transmission and distribution - Electricity consumption	622	691	738	0****	0****	0****	0****	0****
Transmission and distribution - Electric cars	-	-	-	-	-	-	-	0
Business travel - Aviation (includes RF Factors)**	-	-	-	37	34	31	56	82
Business travel - Rail	-	-	-	104	106	91	78	80
Business travel - Cars	-	-	-	121	221	124	84	84
Business travel - Hotel	-	-	-	-	-	-	-	77
Water supply and treatment	28	39	39	42	33	34	42	33
Waste disposal - Recycling	-	-	-	-	-	-	-	6
Waste disposal - Recovery***	-	-	-	15	17	12	45	2
Waste disposal - Landfill	-	-	-	5	9	11	3	0
Well-to-tank - Natural gas and diesel	-	-	-	-	-	-	-	137
Well-to-tank - Electricity consumption	-	-	-	-	-	-	-	36
Well-to-tank - Delivery vehicles	-	-	-	-	-	-	-	2
Well-to-tank - Aviation (includes RF Factors)**	-	-	-	-	-	-	-	9
Well-to-tank - Rail	-	-	-	-	-	-	-	15
Well-to-tank - Cars	-	-	-	-	-	-	-	88
Total scope 3	650	730	777	324	420	303	308	653
Total carbon footprint	10,180	10,509	10,875	2,055	2,176	1,880	1,946	1,943

* Diesel was only used as generators fuel in 2019. Radiative forcing (RF) is a measure of the additional environmental impact of aviation.

** These include emissions of nitrous oxides and water vapour when emitted at high altitude.

*** 2012-2018 figures included recovery and recycling data.

**** Zero due to the purchase of green electricity.